

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 06173699

PUBLICATION DATE : 21-06-94

APPLICATION DATE : 08-12-92

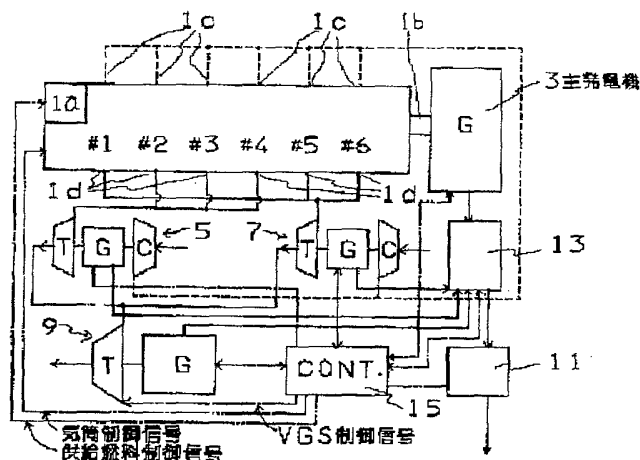
APPLICATION NUMBER : 04351833

APPLICANT : ISUZU CERAMICS KENKYUSHO:KK;

INVENTOR : KAWAMURA HIDEO;

INT.CL. : F02B 37/00 F02B 37/00 F01N 5/04
F02B 19/02 F02B 19/10 F02B 37/02
F02B 63/04 F02B 75/18 F02D 17/02

TITLE : INTERNAL COMBUSTION ENGINE
FOR GENERATING DEVICE



ABSTRACT : PURPOSE: To provide a small scale generating system to carry out the efficient stable generation of electrical energy by using a multiple cylinder gas internal combustion engine.

CONSTITUTION: The cylinders of a gas internal combustion engine which drives a main generator 3 to obtain generated output are grouped, and energy collecting devices 5, 7 which collect an exhaust system in each group for collecting each exhaust energy as electric power are provided. An energy collecting device having a variable hole opening type (VGS type) turbine which can further collect the residual energy of exhaust gas discharged from the energy collecting devices 5, 7 as the electric power is arranged on the downstream side of the energy collecting devices 5, 7. The groups of cylinders are combined according to the size of wanted electric power, and each cylinder is thereby controlled so as to constantly keep highly effective operation, and the turbine is sufficiently rotated by the exhaust gas discharged from each cylinder to make each energy collecting device efficiently collect the exhaust energy, and moreover a turbine provided on the downstream side of the energy collecting device is efficiently operated by changing its throttle ratio according to the quantity of exhaust gas to collect the exhaust energy as the electric power.

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